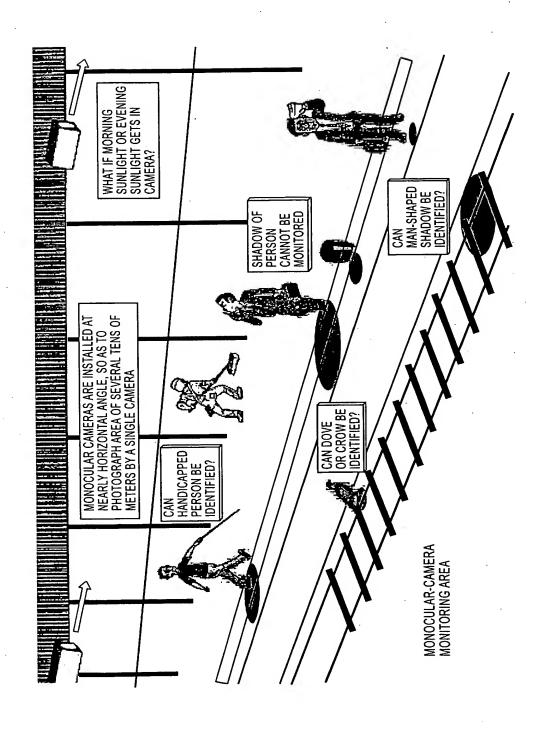


FIG. 1



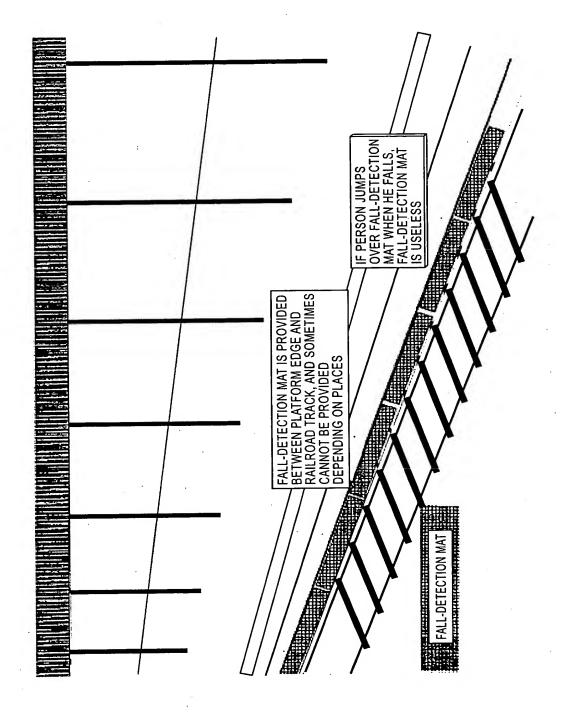
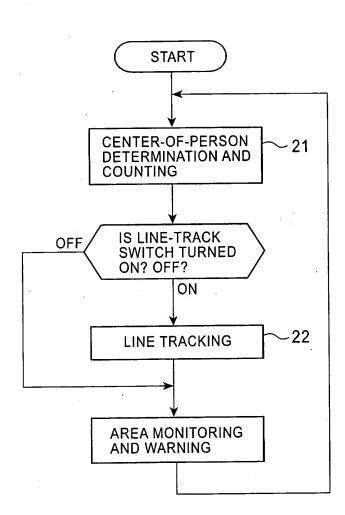


FIG. 4



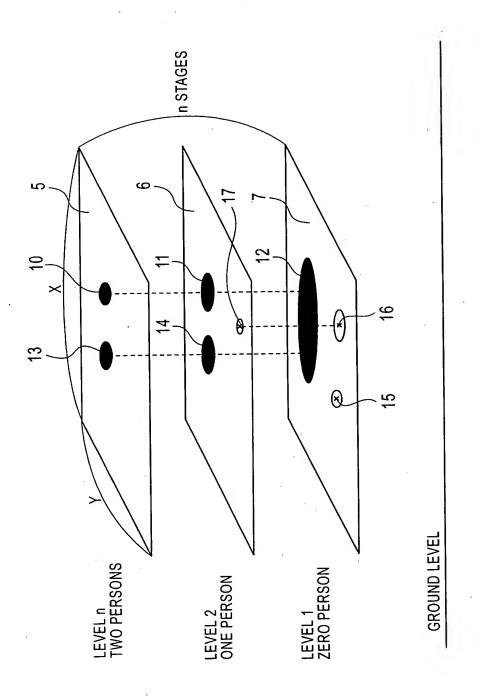
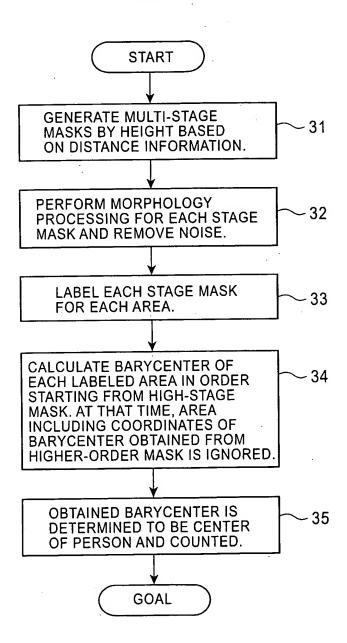


FIG. 6



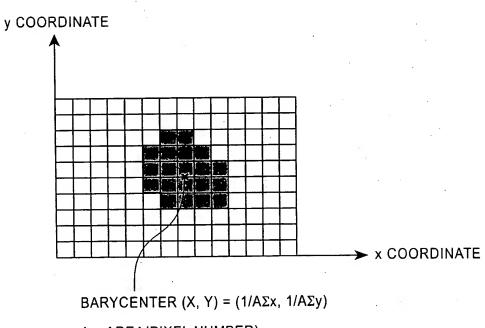
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FIG. 7

| ٧ | | | | | | | | | | ŀ | - | Ŀ | j. | 1 | | | | | | | | | | | |
|------|-----|-----|----|---|---|---|---|---|---|---|---|---|----|---|---|---|---|--------|---|---|---|---|---|---|------------|
| ĆOOR | D۱۱ | IAI | ГΕ | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | _ | _ | | | | | | |
| | 0 | 0 | 0 | 0 | 의 | 0 | 0 | 0 | 0 | 0 | 의 | 0 | 0 | 0 | 힐 | 0 | 0 | 의 | 0 | 0 | 0 | 의 | 0 | 의 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 의 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ٥ | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 의 | 0 | 의 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 의 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 이 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | ليُّـا | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | .0 | 1 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 1 | | 1 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | • |
| | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | X |
| | _ | | | | | | | | | | | | | | | | | | | | | | | | COORDINATE |

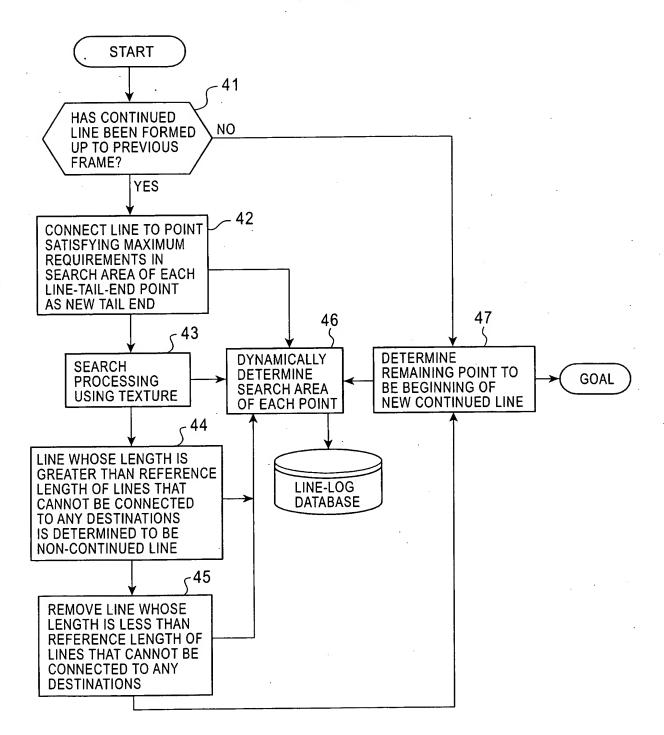
| у | | | | | | | | | | ŀ | - | C | j. | 5 | 5 | | | | | | | | | | | | | | | | |
|----------|-----|-----|---|---|---|---|----|---|---|-----|------------|---|----|---|---|---|---|---|----|---|---|---|----|---|---|---|----|----|--------------|-----|---|
| COORD | NIC | ΙAΊ | Έ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ^ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ļ. | | | _ | | _ | _ | | • | _ | | | | | | ^ | | | 0 | | 0 | 0 | 0 | 01 | 0 | | | | | | | |
| L | 0 | 0 | 믜 | 0 | U | 0 | 0 | 0 | 0 | ٥ | U | U | ٥ | Ů | 0 | 0 | 0 | | 0 | 0 | 1 | × | | - | | | | | | • | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ٥ | 의 | 의 | | | | | | | |
| Ţ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 | \$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 의 | 의 | | | | | | | |
| · [| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | (3) | 3 | ઉં | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 의 | | | | | | | |
| Ī | ਗ਼ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| Ţ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| | न | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 12 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 3 | 9- | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 2 | 12 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| ·.[| ō | 0 | 0 | 0 | 0 | 4 | 9 | 9 | | [1] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| Ī | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| Ī | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 1 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| ļ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | į | | | | | | |
| ļ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| ļ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | > | X | | 5 111 | | _ |
| | | | | • | ` | | | | _ | | | | | | | | | | | | | | | | | | CC | OR | אוט | AIE | = |

FIG. 9



A = AREA(PIXEL NUMBER)

FIG. 10



10 15 99 1 BA

FIG. 11

| order 0 | * * * * * * * * * * * * * * * * * * * | order 0' |
|---------|---|--|
| order 1 | * * * * * * * * * * * * * * * * * * * | order 1' |
| order 2 | * * * * 1 | * * 1 * 2 * 1 * 2 * 1 * 1 * No.30 No.31 |
| | * * 1 1 1 * * 1 * * 1 * * 1 * * 1 * * 1 * * 1 * * 1 * * 1 * * 1 * * 1 * * 1 * * 1 * * 1 * * * 1 | * 1 * 2 * * 1 * * 2 * * * 1 * * * * * * |
| | * * * * * 1 1 | 1 * * 2 * * 1 * * * * * * No.34 No.35 |
| | * 1 * 1 * 1 * * * * * * * * * * * * * * * * * * | |
| | * * * * * 1 * | |

FIG. 12



f1



f2



f3

FIG. 13

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No.1 =
$$\begin{vmatrix} * & * & * & * \\ * & 1 & 1 \\ * & * & * \end{vmatrix}$$

No.2 = $(\begin{vmatrix} * & * & * & * \\ * & 1 & 1 \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & * & 1 \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & 1 & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} 1 & * & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} 1 & * & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & 1 & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & 1 & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & 1 & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & 1 & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & 1 & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & 1 & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & 1 & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & 1 & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & 1 & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & 1 & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & 1 & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & 1 & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & 1 & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * & * \\ * & * & * & * \end{vmatrix} + \begin{vmatrix} * & * & * & * & *$

FIG. 15

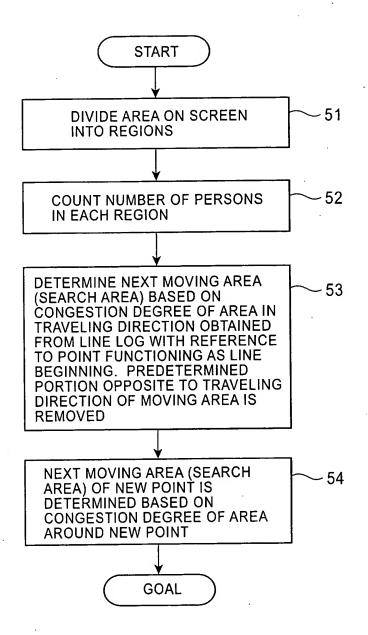


FIG. 16

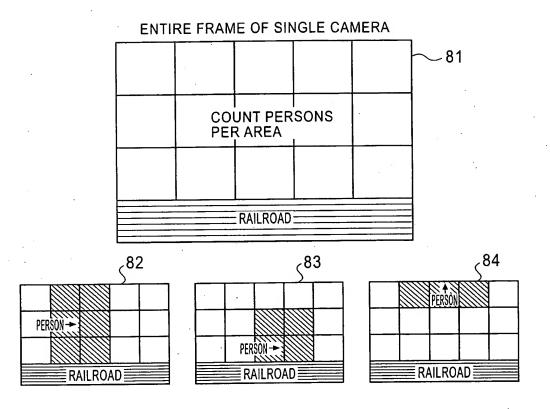


FIG. 17

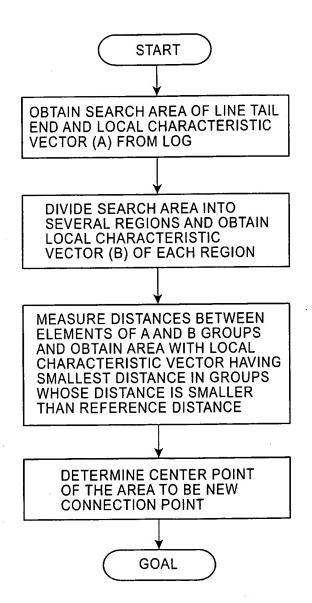


FIG. 18

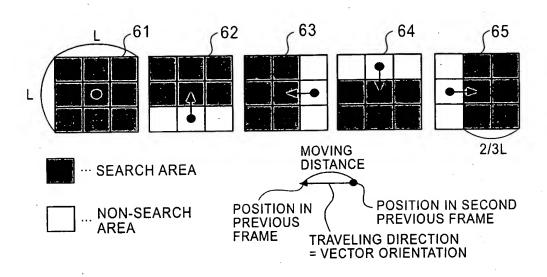
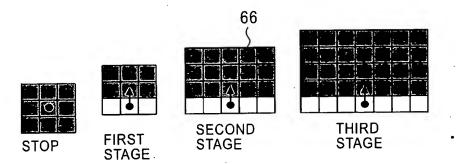
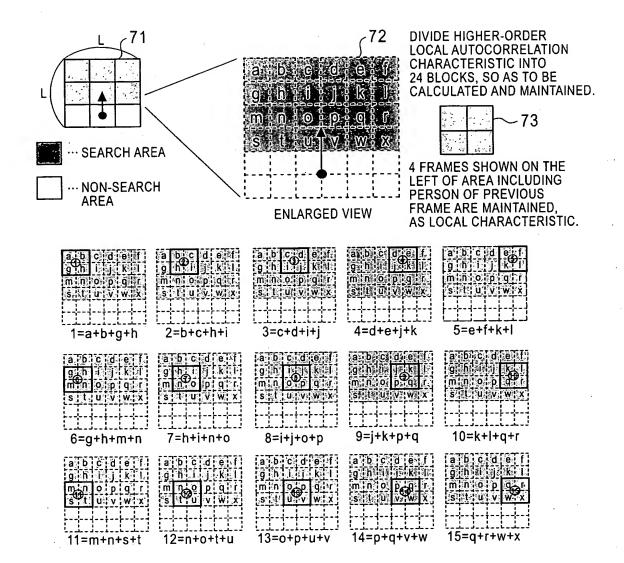


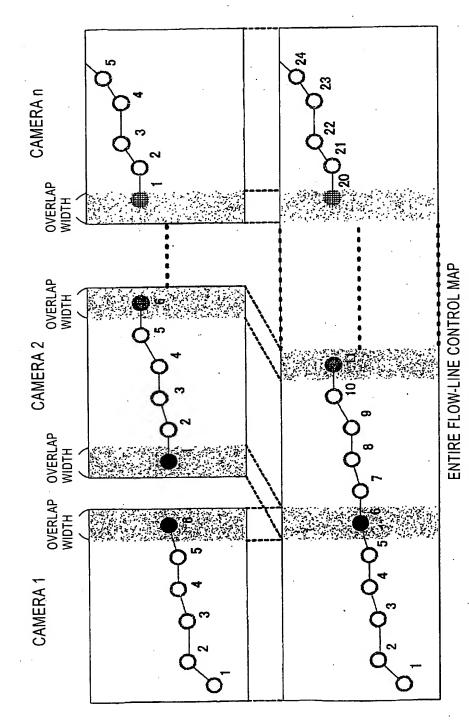
FIG. 19



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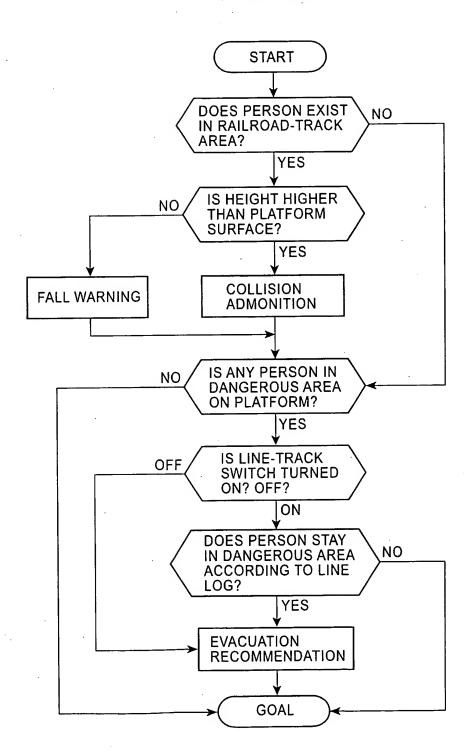
FIG. 20





 $\mathbf{O} \cdots$ Point at which person is identified in each frame

FIG. 22



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